



VR Shop

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CTE Wood working
Dubuque Senior High
Design Mill Inc.

Part I: Overview of Business

Design Mill, Inc. is a strategic systems integrator delivering pioneering solutions for industry leading organizations and the Department of Defense to transform integration of cutting edge interactive hardware and software through innovative design, development, and processes. Focusing on next-generation initiatives for virtual reality and augmented reality, Design Mill enables clients to unlock revolutionary customer engagement approaches and untapped growth strategies to generate synergies for a new level of success.

Part II: Job Specifics

- Importing and indexing multiple laser scans of individual facilities
- Creating mesh models from scan data.
- Creating virtual reality models for clients.
- Problems solving computer/ data issues.

Part III: Introduce the Problem

- Create a VR environment of the woodworking shop.
- Include linked demo videos
- Include hyperlinks to equipment instructions

Part IV: Background

- Students will complete a scan of the shop and then data will be processed
- Create machine demo videos
- Create all link documents

Part V: Business Solution

- Create a render farm to do the work of multiple computers.
- Cloud based scaling of renderings.
- Hire third party to complete meshes.

Part VI: Student Solutions

- Coordinate with Design Mill to utilize their render farm and software apps?
- Utilize Design Mill partner. Ask them to visit and demo their VR technology and talk about other opportunities.